

ZARUBA, I.I., kandidat tekhnicheskikh nauk; POTAP'YRVSKIY, A.O., inzhener.

Automatic welding of sheet steel in an atmosphere of carbon dioxide. Avtom.svar. 10 no.3:22-27 Ky.-Je '57. (MLR 10:8)

I.Crdena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O. Patona Akademii nauk USSR.

(Sheet steel--Welding)
(Protective atmospheres)

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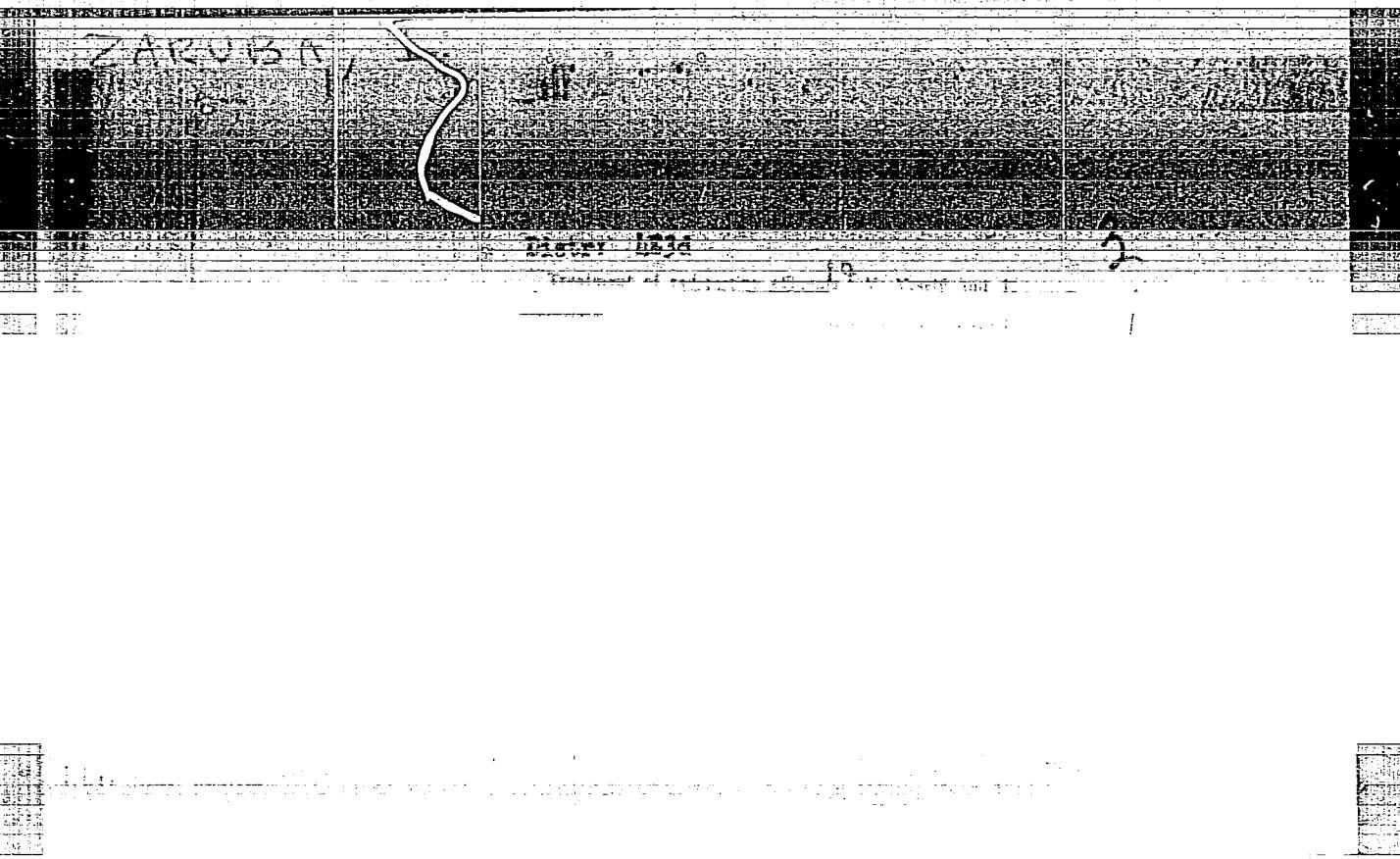
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ZARUBA, I. I. (candidate of Technical Sciences)

"Welding in Gas Shields,"

paper presented at All-Union Scientific-Technical Conference on Welding in Shielding Gases, Leningrad, Dec 1957.

(Svarochnoye Proizvodstvo, 1958, No. 4, pp 46-47 - author Tyul'kov, M. D.)

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ZARUBA, Igor' Ivanovich, kand.tekhn.nauk; RYZHIK, Z.M., inzh., red.;
PREGER, D.P., tekhn.red.

[Semiautomatic welding of thin sheet steel in an atmosphere of
carbon dioxide] Poluavtomaticheskaya svarka tonkolistovoi
stali v atmosfere uglekislogo gaza. Leningrad, Leningr.dom
nauchno-tekhnicheskoi propagandy, 1958. 23 p. (Informatsionno-
tekhnicheskii listok, no.71. Svarka i paika metallov).
(MIRA 12:8)

(Electric welding) (Protective atmospheres)

AUTHORS: Zaruba, I.I. and Gologovskiy, G.M. SOV 125-56-3-11/15

TITLE: Semi-Automatic Welding of Thin Steel Structures (Poluavtomaticheskaya svarka izdeliy iz tonkoy stali)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 3, pp 79-82 (USSR)

ABSTRACT: The Institute of Electric Welding imeni Ye.O. Paton, together with the participation of V.C. Zhukovskiy and S.A. Manoyeva, developed the semi-automatic method of welding thin metal in carbon dioxide with thin electrode rods of 0.5 to 1.2 mm in diameter. A new semi-automatic device, designed for this purpose, is shown in photographs (Figure 1, 2). Tests, performed under industrial conditions, showed the practical fitness of the method which is highly commercial and has considerable advantages over manual electric-arc or acetylen-oxygen welding. The new device can reach a welding speed of 30 - 40 m/hour and can be used in the manufacture of small structures of thin steel in various industrial branches.

There are 2 photographs and 3 Soviet references.

Card 1/2

Semi-Automatic Welding of Thin Steel Structure SOV 125-58-3-11/15

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN USSR (Institute of Electric-Welding imeni Ye.O. Paton, AS UkrSSR)

SUBMITTED: December 1, 1957

1. Steel--Arc welding 2. Arc welding--Equipment 3. Carbon dioxide
--Performance 4. Structures--Materials

Card 2/2

SOV 125-58-3-12/15

AUTHORS: Zaruba, I.I., Dudko, D.A., and Petap'yevskij, A.G.

TITLE: The Semi-Automat for Welding in Carbon Dioxide with a Thin Rod (Poluavtomat dlya svarki tonkoy provolokoy v zashchitnoy srede uglekislogo gaza)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 3, pp 83-85 (USSR)

ABSTRACT: The Institute of Electric Welding imeni Ye.O. Paton with the participation of the authors and engineers, V.Ya. Dobrovetskiy, G.M. Gologovskiy, Yu.V. Vysotskiy, A.I. Porubinovskiy and mechanic Yu.M. Dogtyarev, designed a small-sized hose semi-automat for welding in carbon dioxide with an electrode rod of 0.8 to 1.2 mm in diameter. The device was designed for welding joints on thin metal with different seam disposition. It can also be used to eliminate small welding defects and for small casting. The device consists of a holder, a feeding mechanism, a gas apparatus and a case, all of which are described and illustrated by a photograph and 2 schematic drawings. At present, the Institute has organized serial production of the described device. There is 1 photograph, 1 schematic drawing, and 1 diagram.

Card 1/2

SOV 125-58-3-12/15

The Semi-Automat for Welding in Carbon Dioxide with a Thin Rod

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona, AN USSR (Institute of Electric Welding imeni Ye.O. Paton, AS UkrSSR)

SUBMITTED: December 8, 1957

1. Arc welding machines--Design 2. Arc welding machines
Equipment 3. Arc welding--Electrodes 4. Carbon dioxide--Per-
formance

Carri 2/2

AUTHORS: Candidate of Technical Sciences
Zaruba, I.I., and Potap'yevskiy, A.G., Engineer 125-58-6-3/14

TITLE: Peculiarities of Welding in Carbon Dioxide With Thin Electrode
Rods (Osnobennosti protsessa svarki tonkoy elektrodnoy provo-
lokoy v srede uglekislogo gaza)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 6, pp 32 - 41 (USSR)

ABSTRACT: Information is presented on some peculiarities of welding in carbon dioxide with thin electrode rods (0.5 to 1.2 mm) and various power sources. The characteristic feature of this kind of welding is a series of 100 to 150 short circuits per second in the arc gap. The number of short circuits and the size of electrode metal drops depend mainly on the arc voltage. The stability of the process rests upon a definite periodicity of changes in the arc gap, arc voltage and welding current during the process. The reliability of the arc excitation is determined mainly by the rate of current increase in short circuits and by its stabilized value. The optimum values of the increase of current intensity are given. Generators ensuring reliable excitation and a stable welding process are recommended. The dependence of the process of metal transfer through the arc gap on the value and rate of current increase in

Card 1/2

125-58-6-3/14

Peculiarities of welding in Carbon Dioxide With Thin Electrode Rods
short circuits is demonstrated. There are 5 oscillograms,
2 figures, 1 graph, 3 tables and 8 Soviet references.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki
imeni Ye.O. Paton AN UkrSSR (Order of Labor "Red Banner" Institute
of Electric Welding im. Ye. O. Paton, AS UkrSSR)

SUBMITTED: January 9, 1958

AVAILABLE: Library of Congress

Card 2/2 1. Welding-Characteristics 2. Arc welding electrodes-Applications

25(1)

PHASE I BOOK EXPLOITATION

SOV/3153

Zaruba, Igor' Ivanovich

Avtomatische i poluavtomaticheskaya svarka tonkolistovoy stali (Automatic and Semiautomatic Welding of Sheet Steel) Moscow, Mashgiz, 1959. 62 p. (Series: Biblioteka svarshchika) 10,000 copies printed.

Editorial Board: A. Ye. Asnis, A. A. Kazimirov, B. I. Medovar, B. Ye. Paton (Resp. Ed.), and V. V. Podgayetskiy; Eds.: D. A. Dudko, Candidate of Technical Sciences, and V. V. Mayevskiy; Chief Ed. (Southern Division, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for welders.

COVERAGE: Methods for the automatic and semiautomatic welding of sheet steel are explained, and the equipment used is described. Welding regimes are indicated, and recommendations for welding operations are made. No personalities are mentioned. There are no references.

Card 1/2

ZARUBA, J.E.		
Mashinotekhnicheskaya obshcheshop obshchego proizvodstva. Elektronnye obshcheshop pravlyadly Mashinotekhnika i avtomatizatsiya v mashinostroyeniye: (Izdatel' stekstov) (seminar- sionnaya kniga). Collection or Articles: Collection of Articles: Mashinotekhnika i avtomatizatsiya v mashinostroyeniye: Collection or Articles: Soviet, 1959. 256 p. 8,000 copies printed.		
Sponsoring Agency: Mashinotekhnicheskaya obshcheshop pravlyadly pravlyadly. Zarubinskaya regionalnyye gosudarstvennyye		
Report: This book is intended for engineers and technical personnel in machines and instruments manufacturing plants and scientific research institutions.		
CONTENTS: This book contains reports made by authors of machine and instruments manufacturing plants, scientific research institutions, and educational institu- tions at the All-Union Scientific and Technical Conference devoted to problems of mechanization and automation of production processes. The problems concerned were presented by the All-Union Scientific Association of the MTO Mashinotekhnika (Scientific and Technical Division of the MTO Mashinotekhnika Institute) (Scientific and Technical Division of the MTO Prilozheniye (Scientific and the Uralskii Regional Scientific Association of the MTO Mashinotekhnika). These and Technical Division of the All-Union Scientific Association of the MTO Mashinotekhnika. These reports describe current problems concerned in automation of equipment, technological, technical, and organizational work, practices in manufacturing machines and instruments. V.I. Gorbunov, S.M. Smirnov, A.O. Tyurkashko, V.I. Maslennikov, M.O. Kostylev, and A.M. Parker participated in preparation of the book. There are no references in the book.	52	72
Problems of Motion and Drive Mechanisms of the Working Elements of Automatic Machines (N.L. Orlina)		
Problems in the Automation of Rock-Shotting Machines (A.M. Butikov)		
Developing the Operational Capabilities of the Chelyabinsk Mechanisms on Automatic Lathe (A.V. Lysots)	57	57
Automatic Tooling Setup on Automatic and Semi-automatic Lathe (N.P. Smirnov)		
Some Problems in the Operation of Automatic Lines for Manufacturing Bolts and Nuts (N.M. Orlina)	124	124
Method of Plastic Technological Processes for Automatic Single-spindle Lathes (B.Z. Arshinov)	125	125
Automation of Centerless Through-feed Drilling Process (A.M. Lazarenko)		
Automation of the Technological Cycle for Drilling Face Parts Made of Hardened Steel (V.Z. Matyushkin)	137	137
Mechanization and Automation of the Technological Process of Casting Fracture Cylindrical Items (V.I. Krasnikov, S.I. Demirt, A.J. Malyshev)	145	145
Use of Hydraulic Servo Drives on Preliminary Die-Working Equipment (G.S. Bartash)	152	152
Some Problems of Mechanization and Automation of Rolling Processes (I.I. Sushchik)	153	153
Problems of Technological Processes in Machine Manufacturing (Yu.M. Shchegolev)	157	157
Problems of Construction and Use of Programming Devices (G.U. Svetin, N.P. Evtushikova)	159	159
Present State and Prospects for the Development of Hydrodrives and Hydro- mechanism in Machine Manufacture (Ye.O. Egorov)	202	202
Experimental Study of Hydraulics Couting Systems at MGO Servo Mechanism Plants (A.Z. Dvorchik)	207	207
On Choosing Dimensions of Small Orifices in Elements of Hydrodynamic Mechanisms (G.I. Perel')	212	212
Automatic Sorter for Ball Surface Slides (V.V. Rizov)	214	214
Automatic microprocessorized control of Thread Dimensions (O.G. Makarovich)	222	222
Use of Automatic Inspection of Out-of-roundness of Cylindrical Parts in the Process of Machining (V.N. Kuznetsov)	224	224
Automatic Control of the Grinding Process and Increased Productive Capacities of Technologically Closed Boxes (I.A. Babin)	270-21	270-21

PHASE I BOOK EXPLOITATION SOV/3947

Elektroshlakovaya svarka (Electroslag Welding) 2d ed., rev. and enl.
Moscow, Mashgiz, 1959. 406 p. Errata slip inserted. 6,500 copies printed.

Reviewer: I.I. Zaruba, Candidate of Technical Sciences; Ed. (title page):
B.Ye. Paton, Laureate of the Lenin Prize, Academician, Academy of Sciences USSR;
Eds. (inside book): P.G. Grebel'nik, Candidate of Technical Sciences, and G.D.
Tynyanyy; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel studying the electroslag-welding process.

COVERAGE: The book contains information on the essentials, characteristic features, and advantages of electroslag welding. Thermal and metallurgical characteristics of the processes of electroslag welding and surfacing of steels and other metals are described. Also described are constructions of welding equipment and automatic-control systems for electroslag welding. The following persons participated in writing the book: Candidates of Technical Sciences G.Z. Voloshkevich, S.A. Ostrovskaya, D.A. Dudko, T.K. Pokhodnya, Yu. A. Sterenbogen, G.V. Zhemchuzhnikov, P.I. Sevbo, B.I. Medovar, and D.M. Rabkin; Engineers I.N. Rublevskiy,

Card 1/7

Electroslag Welding

SOV/3947

and I.V. Novikov, O.O. Rozenberg, V.P. Didkovskiy, G.S. Tyagun-Belous; and B.Ye. Paton, Academician, Doctor of Technical Sciences, Laureate of the Lenin Prize. There are 92 references: 86 Soviet, 5 German, and 1 English.

TABLE OF CONTENTS:

Preface to the Second Edition	3
Preface to the First Edition	4
Ch. I. Electroslag Welding of Metals	7
1. Essentials of electroslag welding	7
2. Classification of the types of electroslag welding	13
3. Characteristic features of the electroslag process	18
4. Fields of application of the electroslag process	20
Ch. II. Formation of the Weld in Electroslag Welding	24
1. Generation and distribution of heat in electroslag welding	24
2. Propagation of heat in the parent metal	29
3. Regimes of electroslag welding and their effect on the shape and dimensions of the weld	32

Card 2/7

PATON, B.Ye., akademik, doktor tekhn.nauk, laureat Leninskoy premii;
VOLOSHKEVICH, G.Z., kand.tekhn.nauk, laureat Leninskoy premii;
OSTROVSKAYA, S.A., kand.tekhn.nauk; DUDKO, D.A., kand.tekhn.nauk;
POKHODNYA, I.K., kand.tekhn.nauk; STERZENBOGEN, Yu.A., kand.tekhn.
nauk; RUBLEVSKIY, I.N., inzh.; ZHEMCHUZHNIKOV, G.V., kand.tekhn.
nauk; ROZENBERG, O.O., inzh.; SEVBO, P.I., kand.tekhn.nauk; NOVIKOV,
I.V., inzh.; MEDOVAR, B.I., kand.tekhn.nauk; DIDKOVSKIY, V.P., inzh.;
RABKIN, D.M., kand.tekhn.nauk; TYAGUN-BELOUS, G.S., inzh.; ZARUBA,
I.I., kand.tekhn.nauk, retsentent: GREBEL'NIK, P.G., kand.tekhn.nauk,
red.; TINYANYY, G.D., red.

[Electric slag welding] Elektroshlakovaia svarka. Izd.2., ispr. 1
dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
409 p. (MIRA 13:4)

1. AN USSR (for Paton).
(Electric welding)

66382

25(1) 12.7200

SOV/125-59-12-5/18

AUTHORS: Leskov, G. I. and Zaruba, I. I.

TITLE: Ways of Increasing the Stability of Highly-Effective Welding Arcs

PERIODICAL: Avtomaticheskaya svarka, 1959, Nr 12, pp 34-42 (USSR)

ABSTRACT: Highly-effective welding arcs, which ensure a high fusion coefficient of the electrode, are not stable enough. The author examines the problems connected with this fact and the possibilities of increasing the stability of the arc. After a comprehensive analysis of all the necessary data, he comes to the following conclusion. The repeated ignition of the arc is possible if the plasma temperature has not dropped below the threshold value, which increases with the increase in the effective gas ionization potential. The greater this potential - the greater must be the speed of the voltage rise on the electrodes. Small, strictly dosed out quantities of easily ionizing additives, introduced into the arc, can ensure its stable burning without lowering the fusion coefficient of the

Card 1/2

25(1)

SOV/125-12-4-15/18

AUTHOR: Zaruba, I.I. Candidate of Technical Sciences

TITLE: In the Academic Council of the Institute of Electric
Welding imeni E.O. Paton

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 4, p 93 (USSR)

ABSTRACT: Candidate of Technical Sciences V.N. Bogdanov, Laboratory Chief of the Scientific Investigation Institute for High Frequency Current imeni V.P. Vologdin. (Nauchno-issledovatel'skiy institut tokov vysokoy chastoty im V.P. Vologdina) read a paper on the Academic Council on Febraruay 25, 1959 entitled "Inductive Heating for the Purpose of Welding". Candidate of Technical Science P.I. Sevbo and N.Ye Paton,

Card 1/1

25(1)

AUTHOR: Zaruba, I.I. Candidate of Technical Sciences

SOV/125-12-4-16/18

TITLE: At the Academic Council of the Institute of Electric Welding imeni Ye.O. Paton

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 4, p 94 (USSR)

ABSTRACT: Candidate of Technical Sciences, G.M. Kaprzhak, Senior Scientific Worker at the Central Scientific Laboratory for Electric Treatment of Metals (Tsentral'naya laboratoriya elektricheskoy obrabotki metallov) (TsNIL Elektrom) read a paper at a session of the Academic Council on February 28, 1959 entitled "How to Work out New Schemes of Rectifiers for Arc Welding". Candidates of Technical Sciences V.K. Lebedev, I.I. Zaruba and Academician of the AS UkrSSR, B.I. Paton made some critical remarks.

Card 1/1

POTAP'YEVSKIY, Arkadiy Grigor'yevich; PATON, B.Ye., otv.red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.; PODGAYETSKIY, V.V., red.; ZARUBA, I.I., kand.tekhn.nauk, red.vypuska; MAYZVSKIY, V.V., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Welding in a protective atmosphere] Svarka v zashchitnykh gazakh.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 97 p.
(MIRA 13:9)

(Welding) (Protective atmospheres)

ZABUBA, I. I.

PHASE I BOOK EXPLOITATION SOV/507B

Akademija nauk UkrSSR, Kiev. Institut elektrosvarkovaniya
Vydavtvo novych sposobov svarki "Promsvarkost"; shornik stately.

VPP. 3 [Introduction of New Welding Methods in Industry; Collection of Articles. V. 3] Kiev, Gos. iad-ro tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Odeska Prudova Kranova Zavodni Institut
elektrosvarki i menedzherem Akademika Dr. O. Patona Akademii nauk
Ukrainijskoj SSR.

No. 1. R. Pisarenko; Tech. Ed.: S. Katushevich.

PURPOSE: This collection of articles is intended for personnel in
the welding industry.

CONTENTS: The articles deal with the combined experiences of the
Institut elektrosvarkovaniya menedzhera O. Patona (Electric Welding
Institute Head O. Paton) and several industrial enterprises
in solving scientific and engineering problems in welding

technology. Problems in the application of new methods of me-
chanized welding and electrolytic welding in industry are discussed.
This is the third collection of articles published under the same
title. The foreword was written by Dr. O. Paton, Academician of
the Academy of Sciences Ukrainian SSR and Lenin prize winner.
There are no references.

TABLE OF CONTENTS:

Pavlenko, O. V. [Candidate of Technical Sciences and Lenin Prize Winner; Electric Welding Institute Head Dr. O. Paton], I. Ya. Pavlyuk [Chief Engineer, Uralmashetsbyt (Uralmashetsbyt)], Yu. P. Pavlyuk [Administration for Petroleum Marketing] and I. A. Pavlyuk [Ministry of Machine Building and Non-Metallic Materials Management, USSR] No. 70 [Chief of Building and Fraction Administration No. 70] Inst. T. M. Saltykova, Director, Uralmashetsbyt (Front of the Ministry for Construction, USSR)], Introducing the Patent of Rolling-Up Welded Structures in the Petroleum Industry	38
Zaruba, I. I. [Candidate of Technical Sciences], and Yu. D. Zapryazhkin [Senior Engineer, Electric Welding Institute Head Dr. O. Paton]. Experience in Introducing Automatic and Semiautomatic Gas-combustion Shielded Welding	90
Nedoma, B. I., A. G. Petropavlyk, P. A. Ratkin [Senior Engineer], E. V. Linnik [Head of Welding Laboratory], S. I. Strelkovskiy [KhimGiprorenergema (Chalmgren Branch of the State Design and Scientific Research Institute for Pet- roleum Machinery)], and S. A. Zamchik [Chief of Welding Research, Chalmgreniy machine-building plant (now named Petrov)]. Review: Stalingradskiy machine-building plant (now named Petrov). Review: Stalingradskiy Machine-Building Plant (now named Petrov). Development and Introduction of New Techniques in the Automatic Shielded Flux-Welding of Steel with Chrome Stainless Cladding	99
Kozhevnikov, V. V. [Candidate of Technical Sciences], S. A. Dubovitskiy [Candidate of Technical Sciences], G. N. Dubovitskiy [Senior Engineer, Uralmashetsbyt], Candidate of Technical Sciences, Electric Welding Institute menedzhment, O. Paton], V. V. Gordeev [Deputy Chief Mechanic], S. Ya. Shchukin [Chief of Shop Alchevsky Metallurgical Plant], Ivanov Ivanov, K. Ye. Voroshilova [Alchevsky Metallurgical Plant] Ivanov, K. Ye. Voroshilova [Alchevsky Metallurgical Plant], Mechanic Ramilovskiy [Metallurgist (Mag- nitogorsk Metallurgical Combine)], and K. A. Mal'chenko [Chief of Welding Department, Alchevsky Metallurgical Plant] (Review: Non-ferrous Metallurgical Plant), Experience in the Introduction of Mechanized Surfacing in Metallurgy	115

PHASE I BOOK EXPLOITATION

SOV/4632

Zaruba, Igor' Ivanovich, Boris Sergeyevich Kasatkin, Nikolay Ivanovich Kakhovskiy, and Arkadiy Grigor'yevich Potap'yevskiy

Svarka v uglekislom gaze (Carbon Dioxide Shielded [Arc] Welding) Kiyev, Gostekhizdat, 1960. 223 p. 8,200 copies printed.

Ed.: V. Garkusha; Tech. Ed.: S. Matusevich.

PURPOSE: This book is intended for technical personnel concerned with welding processes.

COVERAGE: The authors discuss the results of research and industrial experience in welding with melting electrodes in a carbon dioxide atmosphere. Certain electric and metallurgical processes which occur in this type of welding are discussed and problems of automatic and semiautomatic welding techniques are considered. The authors describe construction of automatic and semiautomatic welders and present available information regarding their operation. No personalities are mentioned. There are 81 references: 74 Soviet, 6 English, and 1 German.

TABLE OF CONTENTS
Card 1/4

TOPIC TAGS: titanium welding, titanium alloy welding, melting electrode, seam welding,

A new welding process was developed. This process repetition was developed especially for titanium welding segments under helium. Mechanical properties of weld

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LEBEDEV, V.K.; ZARUBA, I.I.; SIDORENKO, M.N.

Improving the electric current supply for hand arc welding.
Avtom.svar. 18 no.1:1-5 Ja '65. (MIRA 18:3)

1. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR.

ZARUBA, I.I.; GUREVICH, S.M.; BLASHCHUK, V. Ye.

Welding titanium with a consumable electrode in inert gas with
arc feeding from a VS-1000-2 rectifier. Avtom. svar. 17 no.10:
87-88 0 '64. (MIRA 18:1)

ZARUBA, I.I.; POTAP'YEVSKIY, A.G.; MECHEV, V.S.

Improving the dynamic properties of welding generators. Avtom.
svar. 15 no.1:31-36 Ja '62. (MIRA 14:12)

1. Ordona Trudovogo Krasnogo Znameni Institut elektrosvarki
imoni Ye.O. Patona AN USSR.
(Electric welding—Equipment and supplies)

ZARUBA, I.I.

In the scientific council of the Electric Welding Institute.
Avtom. svar. 15 no.6:95-96 Je '62. (MIRA 15:5)
(Dissertations, Academic)

S/125/62/000/006/013/013
D040/D113

Dissertations

official opponents were M.P.Braun, Doctor of Technical Sciences, and V.I. Dyatlov, Docent.

Card 2/2

ZARUBA, I.I.; POTAP'YEVSKIY, A.G.; LAPCHINSKIY, V.F.

Effect of the dynamic properties of the electric current source
on the process of welding in carbon dioxide with a wire of 2 mm.
in cross-section. Avtom. svar. 14 no.8:31-40 Ag '61.

(MIRA 14:9)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni
Ye.O. Patona AN USSR.

(Electric welding)

ZARUBA, I.I.

In the scientific council of the Electric Welding Institute.
Avtom. svar. 14 no.12:89 D '61. (MIRA 14:11)
(Electric welding)

S/125/62/000/001/004/C12
DO36/D115

AUTHORS: Zaruba, I.I.; Potap'yevskiy, A.G.; Mechev, V.S.

TITLE: Improving the dynamic properties of welding generators

PERIODICAL: Avtomaticheskaya svarka, no. 1, 1962, 31-36

TEXT: The authors describe an auxiliary low-power current source connected up in parallel to a standard welding generator in order to improve the shape of the curve of variation of the short-circuit current and to obtain an optimum rate of current build-up during CO₂ arc welding with 0.8-1.2 mm welding wire. Its circuit diagram is shown in Fig. 1. The authors were awarded Author's Certificate No. 135991 of June 24, 1960, for such a current source. Previous attempts at adapting standard welding generators, such as the ГС-500 (GS-500) and the ГС-300 (GS-300), to provide a stable welding process under the above-specified welding conditions proved unsuccessful, because no attention was paid to these two factors. As a result of tests, the following conclusions were drawn: (1) A method was proposed for increasing the build-up rate of the short-circuit current in the welding circuit, thus allowing standard welding generators of the GS-500 and GS-300 type to be used

Card 1/2 ✓

Improving the dynamic ...

S/125/62/000/001/004/011
D036/D113

for CO₂ arc welding with 0.5-1.2 mm wire; (2) Increasing the build-up rate of the short-circuit current and the steady-state value of the latter is achieved by connecting up a comparatively low-power source with the corresponding parameters in parallel to the main supply source; (3) It is imperative to connect a variable inductor in series into the circuit of the auxiliary current source, in order to vary the build-up rate of the short-circuit current in the welding circuit; (4) If a rectifier is used as an auxiliary current source, it must have a full-wave three-phase circuit securing minimum pulsation of the rectified voltage, since pulsation reduces the stability of the welding process. There are 5 figures and 6 Soviet references.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O. Paton of the Academy of Sciences UkrSSR)

SUBMITTED: April 18, 1961

Card 2/2

S/125/61/000/008/004/014
D053/D113

AUTHORS: Zaruba, I.I., Potap'yevskiy, A.G., and Lapchinskiy, V.F.

TITLE: Effect of the dynamic characteristics of the power source upon carbon-dioxide-shielded welding with a wire electrode, 2 mm in diameter

PERIODICAL: Avtomaticheskaya svarka, no. 8, 1961, 31-40

TEXT: Peculiarities of the carbon-dioxide-shielded welding process using a wire electrode 2 mm in diameter are described. The purpose of this work was to investigate the reason for a considerable metal spatter and a bad weld formation in this process, and to work out ways of eliminating these faults. The carbon-dioxide welding process with a consumable electrode, 2 mm in diameter, is performed by frequent short-circuiting of the arc gap. An examination of the welding process using high-speed photography and the oscillograms of the welding currents revealed that the quality of weld formation and the transfer and spattering of the weld metal depend on the dynamical properties of the power source, primarily on the rate at which the current rises at the moment when the arc gap is closed by a droplet of molten metal. The optimum rate of this short-circuit current (I_{sh}) rise was determined in

Card 1/3

S/125/61/000/008/004/014 ✓
D053/D113

Effect of the dynamic characteristics...

a series of experiments conducted with an automatically fed wire electrode, 2 mm in diameter. The power was supplied by a BC-400 (VS-400) welding rectifier with a smoothly drooping exterior characteristic ($k \approx -0.06 \text{ V/A}$). The rate of I_{sh} rise was controlled by an adjustable inductor connected in the circuit. Based on the experimental results obtained, the authors conclude that the weld formation can be improved and the spattering reduced to 4 - 6% of its original amount by keeping the ratio of the dI_{sh} to dt within 8 - 20 KA/sec. The existing power sources for welding, however, do not secure the necessary rates of the short-circuit current. As a substitute, standard welding rectifiers or generators can be used with an inductor or reactor connected in series in the welding circuit to keep the rate of the I_{sh} rise within a 10 - 20 KA/sec limit. Good results were obtained with the VS-400 rectifier and an inductor of $(3 \div 5)10^{-3} \text{ H}$, and with the CT-300 (SG-300) generator and the PCT-34 (RSTE-34) reactor. There are 6 figures, 3 tables, and 7 Soviet-bloc references.

Card 2/3

S/125/61/000/008/004/014
DO53/D113

Effect of the dynamic characteristics...

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O. Patona AN USSR (Electric Welding Institute "Order
of the Red Banner of Labor" im. Ye.O. Paton of the AS UkrSSR)

SUBMITTED: April 18, 1961

Card 3/3

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VESELY, V., inz.; ZARUBA, J., inz.

Disposal of radioactive waste water. Jaderna energie 3 no.5:147-151
My '57.

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

Zdrážl,

CZECHOSLOVAKIA/Nuclear Physics - Nuclear Engineering and
Power.

C-8

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 643
Author : Vesely, V., Zaruba, J.
Inst : -
Title : Deactivation of Liquid Radioactive Wastes.

Orig Pub : Jaderna energie, 1957, 3, No 5, 147-151

Abstract : Survey article.

Bibliography, 14 titles.

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MAILER, J., inz.; ZARUBA, J.

Complex mechanization in grain cultivation and harvesting. Zemedel
tech 9 no. 3:185-192 Je '63.

1. Vyzkumny ustav zemedelske techniky, Repy u Prahy.

VESELY, V., inz.; ZARUBA, J., inz.

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L 33603-65 EAT(m)/EPF(c)/EPF(n)-2/EAT(m)/EPR Pr-4/Pa-4/Pu-4
ACCESSION NR: AP5009492

Z/0038/65/000/001/0009/0011 31

AUTHOR: Borak, Lubomir; Dlouhy, Zdenek (Dlougi, Z.); Kepak, Frantisek; Napravnik, Jiri (Napravnik, J.); Ralkova, Jarmila (Ralkova, Ya.); Saidl, Jaroslav (Saidl, Ya.); Schejbalova, Ludmila (Sheybalova, L.); Vesely, Vladimir (Vesel', V.); Zaruba, Josef (Zaruba, Y.)

TITLE: Problems of radioactive wastes being solved in the Institute of Nuclear Research of the Czechoslovak Academy of Sciences

SOURCE: Jaderna energie, no. 1, 1965, 9-11

TOPIC TAGS: radioactive waste disposal, radioactive waste disposal equipment
ABSTRACT: Investigations of radioactive waste disposal are reviewed. Some methods developed and proved are briefly described. Several of them became a basis for pilot plant and full operation equipment design and construction. Orig. art. has 3 figures.

ASSOCIATION: Ustav jaderneho vyzkumu CSAV, Rez (Institute for Nuclear Research, CSAV)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO RZF Sov: 000

OTHER: 017

NA

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in dogs. Sborn.ved.prac.lek.fak.Karlov.Univ. (Hrad.Kral.)
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1. From the 2nd Department of Medicine, Charles University
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1. Department of Anatomy, Charles University Faculty of Medicine, Hradec Kralove (head: prof. Jan Hromada, M.D.) and 2nd Department of Medicine, Charles University Faculty of Medicine (head: prof. Vilo Jurkovic, M.D.).

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PIDIGAN, Vladimir; MIHALOVA, Libuse; HAMET, Alois; ZARURA, Karel

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(Saksagan' region--Iron ores)

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MEL'NIK, Yu.P.; SIROSHAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY,
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Scientific and technical conference of the hydraulic engineering
faculty of the Kalinin Polytechnic Institut in Leningrad. Gidr.
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(Hydraulic engineering--Congresses)

NEPCOROZHNIY, P.S.; BELYAKOV, A.A.; VOZNESENSKIY, A.N.; GLEBOV, P.D.;
KACHANOVSKIY, S.D.; BASEVICH, A.Z.; TARTAKOVSKIY, D.M.;
VASIL'YEV, P.I.; ZARUBAYEV, B.V.; CHUGAYEV, R.R.; KOZHEVNIKOV,
M.P.; KHOROZ, V.S.; IVANOV, P.L.; SHCHAVELEV, D.S.; OKOROKOV,
S.D.; BELOV, A.V.; STAROSTIN, S.M.; YAGN, Yu.I.; IZBASH, S.V.

Ivan Ivanovich Levi; on his 60th birthday. Gidr. stroi. 30
no.9:61-62 S '60. (MIRA 13:9)
(Levi, Ivan Ivanovich, 1900-)

124-57-1-625

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 78 (USSR)

AUTHOR: Zarubayev, N.V.

TITLE: On the Motion of Water in Capillary Tubes (O dvizhenii vody v kapillyarnykh trubkakh)

PERIODICAL: Tr: Leningr. politekhn. in-ta, 1955, Nr 178, pp 80-89

ABSTRACT: The equation of the nonstationary motion of a liquid in a capillary tube is derived, wherein the motion is examined as a motion with a variable mass and zero advective velocity of the liquid. Approximate formulas are obtained for the determination of the velocity of motion and of the time required for the meniscus to be displaced over a specified distance. An experimental verification of the relationships obtained was conducted in cylindrical glass tubes 30 to 120 cm long and having an inner diameter of 0.6, 1.2, and 2.0 mm. A comparison of the experimental and theoretical curves shows that the magnitudes of the experimental velocities are smaller than the theoretical ones, if the capillary tubes are initially dry; in pre-wetted tubes the test results approach the theoretical figures to within 3-5 percent.

A. R. Shkirich

1. Water--Motion--Mathematical analysis 2. Capillary tubes--Applications

Card 1/1

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ZARUBAYEV, N. V.

Capillary motion of water in sandy soils. Trudy LPI no.208:87-100
'60. (MIRA 13:9)

(Water, Underground) (Capillarity)

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L 11369-67 EWT(1) SCTE DD/GD
ACC NR: AT6036492

SOURCE CODE: UR/0000/66/000/000/0056/0057

AUTHOR: Barutkina, T. S.; Zarubaylo, T. T.; Mityushov, M. I.; Nozdrachev, A. D.;
Panov, A. N.; Fedorova, L. D.; Shalyapina, V. G.

34

ORG: none

TITLE: Adrenal cortex and nervous system stress reactions [Paper presented at
conference on problems of space medicine held in Moscow from 24-27 May 1966]

SOURCE: Kofarentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,
Moscow, 1966, 56-57

TOPIC TAGS: animal physiology, adrenal gland, nervous system, space physiology,
biologic metabolism

ABSTRACT:

For a number of years the authors' laboratory has investigated the reaction of the nervous system to various stressors (pain, electric shock, noise, cold etc.) as a function of the adrenal cortex. In chronic dog experiments using implanted electrodes, it was established that there is a decrease in afferent and efferent impulse transmission, which takes place within a day under the influence of stressors.

Card 1/3

L 11369-67

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An injection of hydrocortisone prevents bioelectrical depression while desoxycorticosteroneacetate either has no effect or a converse one by way of actually depressing bioelectric activity.

The reaction of brain catecholamines to stressors may depend on the level of peripheral blood corticosteroids. For instance, injection of large doses of hydrocortisone precludes a decrease in brain catecholamine level in response to cold. Chronic injection of "physiological doses" of hydrocortisone prevents a decrease in brain norepinephrin during the chronic application of stressors. Stress leads to a significantly greater depletion of brain catecholamine reserves in adrenalectomized animals than in intact animals.

The metabolism of the brain was studied in a resting state and during stress. The concentration of ATP, ADP, AMP, GTP, GDP, lactic, citric, pyruvic and ketoglutaric acids were determined after injection of hydrocortisone in animals in a resting state and during electrocutaneous stimulation. It was found that under these experimental conditions, which entailed prolonged (one day) irritation, metabolic indices were unchanged. Brief (45 sec) irrita-

Card 2/3

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tion caused an intensification of glycolysis. Injection of hydrocortisone lowered the content of ATP while the concentration of ADP, AMP, and citric acid was increased. (H. A. No. 22; ATD Report 66-116)

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Card 3/3